| <br> | <br>aims |  |
|------|----------|--|
|      |          |  |

|   | Application No. | Applicant(s) |       |
|---|-----------------|--------------|-------|
|   | 09/943,190      | CAMPBELL ET  | AL.01 |
| ĺ | Examiner        | Art Unit     |       |

Renzo N. Rocchegiani

2825

| √  | Rejected |
|----|----------|
| II | Allowed  |

| _ | (Through numeral)<br>Cancelled |
|---|--------------------------------|
| ÷ | Restricted                     |

| N | Non-Elected  |
|---|--------------|
|   | Interference |

| Α | Appeal   |
|---|----------|
| 0 | Objected |

| <del></del> |            |                 |          |   |          | _  |              |              |  |               | 1 | <u> </u>   |          | т —  |                 |          | -        |               |         |              |        | ٦.  | <u> </u>    | <del></del> | _        |                 |          |          |            |                                     |                 |          |          |
|-------------|------------|-----------------|----------|---|----------|--|--------------|--------------|--|---------------|---|--|----------|--|-----------------|----------|----------|---------------|---------|--------------|--------|-----|-------------|-------------|----------|-----------------|----------|----------|------------|-------------------------------------|-----------------|----------|----------|
| L Cla       | aim        |                 |          | _ | ᆜ        | Dat  | e            | _            |  | _             | - | Cla  | aim      | 1  |                 |          | P        | ate           |         | _            |        | 4   | CI          | aim         | <u> </u> |                 | ÷        |          | <u>Dat</u> | e_                                  |                 |          |          |
| Final       | Original   | 10/21/04        |          |   |          |  |              |              |  |               |   | Final  | Original |  |                 |          |          |               |         |              |        |     | Final       | Original    |          |                 |          |          |            |                                     |                 |          |          |
| 1           | 1          | =               |          |   | Г        | T  | 1            | Τ            |  | Π             | 1 |  | 51       | П  | П               | $\neg$   | 7        | $\neg$        | $\top$  | ┪            |        | 1   |             | 101         |          | П               | Γ        |          |            | П                                   | П               |          |          |
| 2           | 2          | =               |          |   |          | 1  | 1            | 1            | T  | † <del></del> | 1 |  | 52       | T  |                 | 7        | ┪        | ┪             | 十       | T            |        | 1   |             | 102         |          |                 |          |          |            | İ                                   | П               |          | Т        |
| 3           | 3          | Ī≡              |          |   |          |  |              |              |  | Ī             | 1 |  | 53       | İ  |                 |          |          |               | 1       | $\dashv$     |        | 1   |             | 103         |          | П               |          |          |            | Г                                   | П               |          |          |
| 4           | 4          | =               |          |   | $\Box$   |  |              |              |  |               | 1 |  | 54       |  | $\Box$          | $\neg$   | 一        | $\neg$        | 7       | T            |        | 1   |             | 104         |          | П               |          | Г        |            |                                     |                 |          | Г        |
| 5           | 5          | =               |          |   | Г        |  | 1            | 1            |  |               | 1 |  | 55       |  | П               | $\neg$   | $\neg$   | $\neg$        | $\top$  | T            | $\neg$ | 1   |             | 105         |          | П               |          |          |            |                                     | П               |          |          |
| 6           | 6          | =               |          |   |          | Г  |              |              | Т  |               | 1 |  | 56       |  |                 |          |          |               | $\top$  |              |        | 1   |             | 106         |          |                 |          |          |            |                                     |                 |          |          |
| 7           | 7 ·        | =               |          |   |          |  |              | Г            |  |               | ] |  | 57       |  |                 |          |          |               | Т       |              |        |     |             | 107         |          |                 |          |          |            |                                     |                 |          |          |
| 8           | 8          | =               |          |   |          |  |              |              |  |               | ] |  | 58       |  |                 | $\Box$   |          |               |         |              |        | ]   |             | 108         |          |                 |          |          |            |                                     |                 |          |          |
| 9           | 9          | =               |          |   |          |  |              |              |  |               | ] |  | 59       |  |                 |          |          |               |         |              |        | ]   |             | 109         |          |                 |          |          |            |                                     |                 |          |          |
| 10          | 10         | =               |          |   | L        | L  | L            |              | L  | L             | ] |  | 60       |  |                 |          |          |               |         |              |        | ]   |             | 110         |          |                 |          |          |            |                                     |                 |          |          |
| 11          | 11         | =               |          |   |          |  |              | L            |  | L             | ] |  | 61       |  |                 |          | $\perp$  | $\perp$       | L       |              |        | _   |             | 111         |          |                 |          |          |            |                                     |                 |          |          |
| 12          | 12         | =               |          |   | L        | L  | L            | L            | L  | L             |   |  | 62       |  |                 |          |          |               |         | $\perp$      |        | ]   |             | 112         |          |                 |          |          | L          | _                                   |                 |          | L        |
| 13          | 13         | =               | Ш        | _ | L        | oxdot  | L            | L            |  | L             |   |  | 63       | L  | $\sqcup$        | [        | $\bot$   | [             | $\perp$ |              |        | 1   | <u></u>     | 113         |          |                 |          |          | _          | ட                                   | Ш               |          | L        |
| 14          | 14         | =               | Ш        |   | _        | <u> </u>   | <u> </u>     |              |  | _             |   |  | 64       |  | Ш               |          |          |               |         | $\perp$      |        |     | L           | 114         | L_       |                 |          |          | L          |                                     | Ш               |          | L        |
| 15          | 15         | =               | L        |   |          | <u> </u>   | _            | _            | $oxed{}$   | _             |   |  | 65       |  | Ш               | $\perp$  |          |               | $\perp$ | _            |        | 1   |             | 115         |          | Ш               | <u></u>  | _        |            |                                     | Ш               |          | L        |
| 16          | 16         | =               |          |   |          |  |              | <u> </u>     | _  |               |   |  | 66       | _  | Ш               | _        | _        |               | _ _     | _            |        | 1   | <u></u>     | 116         |          |                 | <u> </u> | L        | L          | _                                   | Ш               |          | L        |
| 17          | 17         | ╚               |          |   |          | <u> </u>   |              | $\perp$      | _  | <u> </u>      |   |  | 67       |  | Ш               | 4        | _        |               |         | 4            |        | 1   |             | 117         | _        | Щ               | _        | L        | L_         | L                                   | Ш               |          | _        |
| 18          | 18         | =               | Ш        |   |          | <u> </u>   |              | _            | ┖  | _             | ļ |  | 68       |  | Ш               | _        | 4        | _             | $\perp$ | 4            |        | 1   |             | 118         | _        | Ш               | _        | _        | <u> </u>   | $ldsymbol{ldsymbol{ldsymbol{eta}}}$ | Щ               |          | L        |
| 19          | 19         | =               |          |   | _        | <u> </u>   |              |              | _  | _             | 1 |  | 69       |  |                 | _        |          |               |         | ┵            | ┵      | 1   |             | 119         | <u> </u> |                 |          | _        | <u> </u>   |                                     | Ŀ               |          | ┕        |
| 20          | 20         | =               |          |   |          | <u> </u>   |              | <u> </u>     | <u> </u>   | <u> </u>      |   |  | 70       | L.   | $\Box$          | _        | _        |               |         | $\perp$      |        | 1   |             | 120         |          | Ш               |          |          |            | L                                   | Щ               |          | L        |
| 21          | 21         | =               |          |   | L        | <u> </u>   | <u>Ļ</u>     | <u> </u>     | <u> </u>   | _             |   |  | 71       | _  |                 | _        | _        |               | $\perp$ | $\perp$      | _      | 1   | <u></u>     | 121         | _        | Ш               |          |          | _          | _                                   |                 |          | ┕        |
| 22          | 22         | =               |          |   |          | ┕  | ┡            | _            | <u> </u>   | <u> </u>      |   | <u> </u>   | 72       | ╙  | Ш               | 4        | _        | 4             | 4       | 4            |        | 1   |             | 122         |          |                 | _        | _        | _          | <u> </u>                            | $\sqcup$        |          | ┕        |
| 23          | 23         | =               |          |   |          | L  | <b>—</b>     | <u> </u>     |  |               | i | <u> </u>   | 73       | <u> </u>   | Ш               | _        | _        | _             | _       | 4            | _ _    |     |             | 123         |          | Щ               |          |          |            | Ш                                   | Ш               |          | ┕        |
|             | 24         | lacksquare      |          |   | _        | _  | ┡            | $\vdash$     | _  | _             | l |  | 74       | ļ  | -               | _        | _        | 4             | _       | 4            | 4.     |     |             | 124         | _        | Ш               |          |          |            | _                                   |                 |          | ╙        |
| 64          | 25         | _               | Щ        |   | <u> </u> | <u> </u>   | ▙            | ↓_           | ┞-   | <u> </u>      | l |  | 75       | <u> </u>   | Ш               | -        | -        | $\rightarrow$ | 4       | $\downarrow$ | _      | 1   |             | 125         |          | Ш               |          | L        | _          | $\vdash$                            | Ш               |          | ⊢        |
| 24          | 26         | =               |          |   | <u> </u> | _  | ┞            | ╄            | ▙  |               |   |  | 76       | <u> </u>   | Ш               | 4        | $\dashv$ | -             | 4       | 4            | _ _    | 1   | <u> </u>    | 126         |          | Ш               |          |          | <u> </u>   |                                     | Ш               |          | $\vdash$ |
| 26          | 27         | =               |          |   |          | _  | <u> </u>     | <u> </u>     | ļ.,  |               |   |  | 77       | <u> </u>   | ┵               | -        | 4        | $\dashv$      | 4       | 4            | _      | Į   | <u> </u>    | 127         |          | Н               | <u></u>  | <u> </u> | <u> </u>   |                                     | Ш               |          | <u> </u> |
| 27          | 28         | =               | _        |   | $\vdash$ | ⊢  | ├            | -            | ļ  | <u> </u>      |   | <u> </u>   | 78       | _  | $\sqcup$        | -        | 4        | -             | +       | +            | -      | 4   | <u> </u>    | 128         |          | Н               |          |          |            |                                     | Н               |          | L        |
|             | 29.        | -               | Ш        |   |          | <u> </u>   | ├-           | -            | -  | ├-            |   |  | 79       | <b>.</b>   | $\vdash$        | -        | $\dashv$ | -+            |         | +            | +      | -   | -           | 129         | _        | Н               |          | _        | _          | $\vdash$                            | $\vdash$        | _        | <u> </u> |
|             | 30         |                 | -        |   |          |  | -            | }            | -  | ٠,            |   |  | 80       | -  | $\vdash$        | +        | $\dashv$ | $\dashv$      | +       | +            | -      | -   | <u> </u>    | 130         |          | Н               | -        | ├        | _          | _                                   | $\vdash$        |          | <u> </u> |
|             | 31         | -               |          | _ |          | <del> </del>                                     | ├            | -            | $\vdash$   | _             |   |  | 81       | ├  | <del> </del> ⊦  | -        | -        | -             |         | +            |        | ┨   | ļ           | 131         |          |                 | _        | <u> </u> |            |                                     | Н               |          | <u> </u> |
|             | 32<br>33   | -               |          | _ | _        | -  | ⊢            | ╁            | $\vdash$   | ├-            |   |  | 82       | $\vdash$   | ↤               | -+       | -        | +             | +       | +            | +      | 1   | -           | 132         | _        | Н               | -        | _        | _          |                                     | Н               |          | <u> </u> |
|             | 34<br>34   | $\vdash$        | $\vdash$ |   |          | -  | <del> </del> | ╀            | $\vdash$   | $\vdash$      |   | -  | 83<br>84 |  | $\vdash$        | $\dashv$ | -        | $\dashv$      | +       | +            |        | ┨ . | -           | 133<br>134  | -        | $\vdash\vdash$  | Н        | ├        | $\vdash$   | $\vdash$                            | ${oxdot}$       | 4        | $\vdash$ |
|             | 35         | $\vdash$        | $\vdash$ |   | $\vdash$ | ├-   | ├            | ┼-           | $\vdash$   | $\vdash$      |   | <del>                                     </del> | 85       | $\vdash$   | $\vdash$        | $\dashv$ | +        | +             | +       | +            | +      | 1   | -           | 135         | -        | $\vdash$        | H        | ┝        | $\vdash$   | $\vdash$                            | $\vdash$        | -        | ⊢        |
|             | 36         | -               | $\vdash$ |   | Н        | $\vdash$   | ╌            | ╀            | $\vdash$   | $\vdash$      |   |  | 86       | $\vdash$   | $\vdash \vdash$ | $\dashv$ | +        | +             | +       | +            |        | 1   |             | 136         | <b> </b> | $\vdash$        | $\vdash$ | $\vdash$ | $\vdash$   | -                                   | $\vdash \vdash$ | -        | $\vdash$ |
|             | 37         | $\vdash$        | $\vdash$ |   | $\vdash$ | -  | ┢            | ╁╌           | $\vdash$   | $\vdash$      |   |  | 87       | ╢  | $\vdash \vdash$ | $\dashv$ | $\dashv$ | +             | +       | +            | +      | -   | -           | 137         | -        | $\vdash$        | $\vdash$ | -        | $\vdash$   | $\vdash$                            | $\vdash$        | _        | $\vdash$ |
|             | 38         | $\vdash$        | $\vdash$ | _ |          | -  | $\vdash$     | 1-           | ╁  | -             | Ì | $\vdash\vdash\vdash$                             | 88       | $\vdash$   | ┝╌┥             | $\dashv$ | $\dashv$ | $\dashv$      | +       | +            |        | 1   | <b>-</b>    | 138         | $\vdash$ | $\vdash \vdash$ | Н        | $\vdash$ | $\vdash$   | $\vdash$                            | $\vdash$        | _        | $\vdash$ |
|             | 39         | $\vdash$        | $\vdash$ | _ | <u> </u> | -  |              | ╁            | $\vdash$   | $\vdash$      |   | $\vdash$   | 89       | -  | $\vdash \vdash$ | $\dashv$ | $\dashv$ | $\dashv$      | +       | +            | +      | 1   | $\vdash$    | 139         | $\vdash$ | $\vdash$        | $\vdash$ | $\vdash$ | -          | -                                   |                 | -        | ⊢        |
|             | 40         | $\vdash$        | $\vdash$ | - | -        | $\vdash$   | $\vdash$     | ⊢            | $\vdash$   | $\vdash$      |   | $\vdash\vdash\vdash$                             |          | ╁  | $\vdash \vdash$ | -+       | $\dashv$ | +             | +       | +            | +      | 1   | <u></u>     |             | _        | $\vdash \vdash$ | $\vdash$ | $\vdash$ |            | Н                                   | $\vdash$        | -        | $\vdash$ |
|             | 41         |                 | $\vdash$ | - | $\vdash$ | $\vdash$   | -            | ╁            | $\vdash$   | $\vdash$      |   | $\vdash\vdash\vdash$                             | 90       | -  | $\vdash$        | -+       | +        | $\dashv$      | +       | +            | +      | 1   | $\vdash$    | 140         |          | $\vdash$        | $\dashv$ | -        | $\vdash$   | $\vdash$                            | $\vdash$        | -        | $\vdash$ |
| 25          | 42         | =               | $\dashv$ |   |          | $\vdash$   | $\vdash$     | +-           | ├  | $\vdash$      |   |  | 92       | $\vdash$   | $\vdash$        | $\dashv$ | +        | $\dashv$      | +       | +            | +      | 1   | $\vdash$    | 142         |          | $\vdash \vdash$ | $\vdash$ | $\vdash$ | -          | Н                                   | $\vdash \dashv$ | $\dashv$ | $\vdash$ |
| 20          | 43         | H               | $\dashv$ | - |          | $\vdash$   | -            | $\vdash$     | $\vdash$   | -             |   | $\vdash \vdash \vdash$                           | 93       | ├  | ┝╌┤             | -        | $\dashv$ | +             | +       | +            | +      | 1   | -           | 143         |          | $\vdash$        |          | H        | -          | $\vdash$                            |                 |          | $\vdash$ |
| 28          | 44         | =               | $\dashv$ | - |          | <del>                                     </del> | <del> </del> | $\vdash$     | $\vdash$   |               |   | $\vdash$   | 94       | ├  | <del>   </del>  | -+       | $\dashv$ | +             | +       | +            | +      | 1   | $\vdash$    | 144         |          | $\vdash \vdash$ |          |          |            | $\vdash$                            | $\vdash$        | -        | -        |
| 20          | <i>4</i> 5 | H               | $\dashv$ |   |          | H  | -            | +            | <del>                                     </del> | $\vdash$      |   | $\vdash\vdash\vdash$                             | 95       | $\vdash$   | $\vdash \vdash$ | $\dashv$ | $\dashv$ | +             | +       | +            | +      | 1   | <del></del> | 145         | H        | $\vdash$        | $\vdash$ | $\vdash$ | $\vdash$   | Н                                   |                 | _        | $\vdash$ |
|             | 46         | $\vdash \vdash$ | $\dashv$ | _ | $\vdash$ | ┝  | ⊢            | $\vdash$     | <del>  -  </del>                                 | $\vdash$      |   | $\vdash$   | 96       | $\vdash$   | $\vdash$        | +        | $\dashv$ | $\dashv$      | +       | +            | +      | ł   | -           | 146         |          | $\vdash$        | $\dashv$ |          | $\vdash$   | $\vdash$                            | $\vdash$        | _        | $\vdash$ |
|             | 47         | Н               | $\dashv$ |   |          | -  | $\vdash$     | $\vdash$     | $\vdash$   | $\vdash$      |   | <del>                                     </del> | 97       | $\vdash$   | H               | $\dashv$ | $\dashv$ | +             | +       | +            |        | ┨   |             | 147         | $\vdash$ | $\vdash \vdash$ | $\dashv$ | $\vdash$ |            | $\vdash$                            | $\vdash$        | -        | <u> </u> |
|             | 48         | Н               | $\dashv$ | _ |          | $\vdash$   | ├            | <del> </del> | 1-   | <u> </u>      |   | $\vdash \vdash \vdash$                           | 98       | ╁  | $\vdash$        | $\dashv$ | +        | $\dashv$      | +       | +            |        | 1   |             | 148         | Н        | $\vdash$        | $\dashv$ | $\vdash$ |            | Н                                   |                 |          | $\vdash$ |
|             | 49         | Н               | $\dashv$ |   | $\vdash$ | $\vdash$   | -            | $\vdash$     | <del>  -  </del>                                 | $\vdash$      |   | $\vdash$   | 99       | <del>                                     </del> | $\vdash$        | $\dashv$ | +        | +             | +       | +            | +-     | 1   | <del></del> | 149         | $\vdash$ | $\vdash \vdash$ | $\vdash$ | $\vdash$ | -          | $\vdash$                            | $\vdash$        |          | $\vdash$ |
|             | 50         | H               | -        | - | Н        |  | $\vdash$     | $\vdash$     | ╁╌   | $\vdash$      |   | $\vdash \vdash \vdash$                           | 100      | -  | $\vdash$        | $\dashv$ | ┰        | +             | +       | +            | +      | 1   |             | 150         | $\vdash$ |                 | $\dashv$ | $\vdash$ | -          | Н                                   | $\vdash$        |          | $\vdash$ |
|             |            |                 |          |   |          |  |              |              |  | , ,           |   |  |          |  |                 |          |          |               |         |              |        |     |             |             |          |                 |          |          |            |                                     |                 |          |          |